THREE-DIMENSIONAL VOLUMETRIC DISPLAY

ABSTRACT

A novel three-dimensional (3D) volumetric display device is disclosed. The 3D volumetric display device of this invention includes a microlens array and an electrical control device for controlling the depth position of individual volume points within the 3D volumetric image. The display device of this invention displays 3D images that may be observed without the use of eyewear. The display device of this invention may further provide for monochromatic or full color 3D displays having a large depth of field. Moreover, the display device of this invention may provide for compact and lightweight 3D displays and may be suitable for many portable electronic applications.